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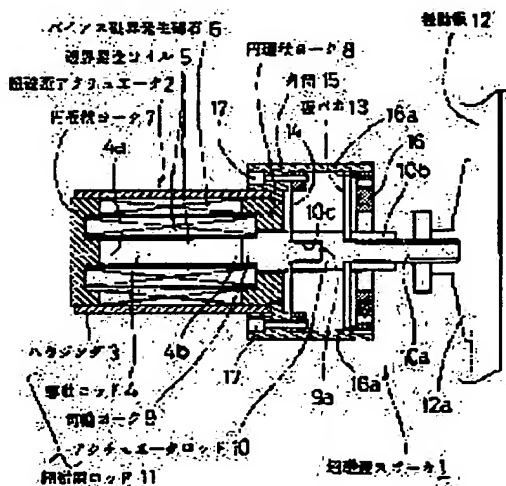
KANO SHUJI

(54) SUPERMAGNETOSTRICTIVE ACTUATOR AND SUPERMAGNETOSTRICTIVE SPEAKER USING THE SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To expand and contract a supermagnetostrictive rod without sliding it on a housing that supports it and prevent trouble due to a slide.

SOLUTION: A driving rod 11 formed by coupling the supermagnetostrictive rod 4 and an actuator rod 10 is suspended by leaf springs 13 and 14 arranged at a specific interval along its axis so that the driving rod is displaced in the space of the housing 3 without sliding when the supermagnetostrictive rod 4 is expanded and contracted. Consequently, when the supermagnetostrictive rod 4 is expanded and contracted by supplying an electric signal to a



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magnetic field producing coil 5 and its displacement is transmitted to outside the housing 3 through the actuator rod 10, the driving rod 11 is displaced without sliding on the housing 3 and magnetic field producing coil 5, so trouble due to a slide is not caused.

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